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Milan M15

1100-Watt Powered 15" Loudspeaker with KLARK TEKNIK DSP Technology

- 1,100-Watt 2-Way loudspeaker system for FOH and floor monitoring applications
- KLARK TEKNIK signal processor dynamically optimises sound quality at all levels and protects drivers
- Converging Elliptical Waveguide provides wide dispersion and excellent pattern control
- State-of-the-art aluminium-diaphragm compression driver for exceptional high-frequency reproduction
- Long-excursion 15" low-frequency driver provides extremely deep bass response
- Sophisticated Class-D amplifier delivers your sound with clarity and definition
- Roadworthy and lightweight composite cabinet with black finish and aluminium carrying handles
- 2 discrete mic/line input channels with individual level controls and peak indicators
- Musical 2-band EQ for flexible sound adjustment
- Speech/music switch featuring optimised EQ for voices or music applications
- Designed and engineered by TURBOSOUND in England



The Milan M15 is a portable 15" two-way powered loudspeaker featuring two independent input channels, mic and line inputs, two band EQ, intelligent limiting, and a Mix Out function for connection to additional Milan loudspeakers for easy system expansion.

The Class-D amplifier is a two channel unit with an integrated electronic crossover, allowing the HF and LF drivers to be powered separately without one being able to influence the sound of the other. Total output power is 1,100 watts peak, providing plenty of headroom to maintain good dynamic range so that transient signals are delivered effortlessly. The lightweight switch-mode power supply coupled with industry leading Klark Teknik digital signal processing, providing dynamic equalisation and sophisticated limiting functions to ensure optimum performance and long term reliability.

The two discrete input channels are each equipped with balanced, combination jack/XLR connectors and a level control, catering for a range of music sources from low impedance microphones, acoustic guitars and keyboards to mp3 players and mixing consoles, selectable via a mic/line slide switch.

Common to both channels are bass and treble controls with $\pm 6\text{dB}$ of cut or boost to allow the loudspeaker to be equalised to the venue. In addition, a low cut filter is provided at 100Hz to shelve the low frequency response when used on the floor as a wedge monitor, or to ensure correct integration with subwoofers. A speech/music switch optimises the loudspeaker's frequency response either for predominantly vocal material or for music programme. A Mix Out function sends the mix of both input channels post-EQ to additional Milan loudspeakers on a balanced male XLR for easy system expansion.

The trapezoidal enclosure is fabricated from high density polypropylene, and is extensively ribbed externally and internally to eliminate resonances and also to provide an attractive and durable cabinet finish. The symmetrical side angles allow the loudspeaker to be conveniently used as a floor monitor. A recessed grab handle on the top is designed for easy lifting and carrying, while the dual angle pole mount socket allows the loudspeaker to be mounted on straight poles or speaker stands either vertically, or raise higher and angled down to optimise audience coverage. A total of six M10 rigging points are provided on the top and bottom of the cabinet to enable vertical or horizontal suspension in permanent installations using M10 shoulder eyebolts.

Mains power is connected via a non-locking IEC receptacle with integrated fuseholder. The illuminated front badge can operate in one of three possible modes: permanently on; permanently off; or to indicate the action of limiting.

Milan series

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DIMENSIONS (HxWxD)	719 x 457 x 368 mm (28.3 x 18 x 14.5")
NET WEIGHT	27.7kg (60.9lbs)
COMPONENTS	1 x 15" (381mm) LF driver, 1 x 1" (25mm) HF compression driver
FREQUENCY RESPONSE	45Hz–18kHz ±3dB, 40Hz–20kHz -10dB
NOMINAL DISPERSION	90°H x 60°V @ -6dB points
MAXIMUM SPL	130dB (peak)
CONSTRUCTION	Injection-moulded polypropylene enclosure. Recessed carrying handles. Integral dual-angle pole mount socket
GRILLE	Powder coated galvanised perforated steel mesh grille with foam backing
CONNECTORS	Mic/Line input: combo jack/female XLR wired pin 2 hot; Mix out: male XLR wired pin 2 hot; IEC mains connector with integrated fuseholder
CONTROLS	Level, Line/Mic, Low Cut, Speech/Music, Bass and Treble, Front LED, Mains on/off
INDICATORS	Power LED (blue), SIG LED (green), LIMIT LED (red), CLIP LED (red)
AMPLIFIER	Type: Class-D Max Output Power: LF: 1000 W; HF: 100 W Input Sensitivity: Mic: -32dBu; Line: -2dBu Input Impedance: Mic: 560Ω unbalanced, 1kΩ balanced Line: 20kΩ unbalanced, 40kΩ balanced Equalisation: Bass: ±6dB @ 80Hz; Treble: ±6dB @ 12kHz Amplifier Protection: Full short circuit, open circuit, thermal
MAINS VOLTAGE	USA / CAN: 100–120 V~ (T 8.0 A H 250 V) UK / AUS / EUR: 220–240 V~ (T 4.0 A H 250 V) CH: 220–240 V~ (T 4.0 A H 250 V) JP: 100–120 V~ (T 8.0 A H 250 V)
POWER CONSUMPTION	140 W @1/8 max power
RIGGING OPTIONS	(6) M10 threaded internal rigging points
SPARES AND ACCESSORIES	LS-1534 15" (381mm) replacement LF loudspeaker RC-1534 Recone kit CD-125 1" (25mm) HF compression driver RD-125 HF diaphragm AMP-M12M15 Replacement amplifier assembly PB-55 Wall bracket, pole mount fixing EB-10 M10 shoulder eyebolt
MORE INFO	More information can be found on our website: www.turbosound.com

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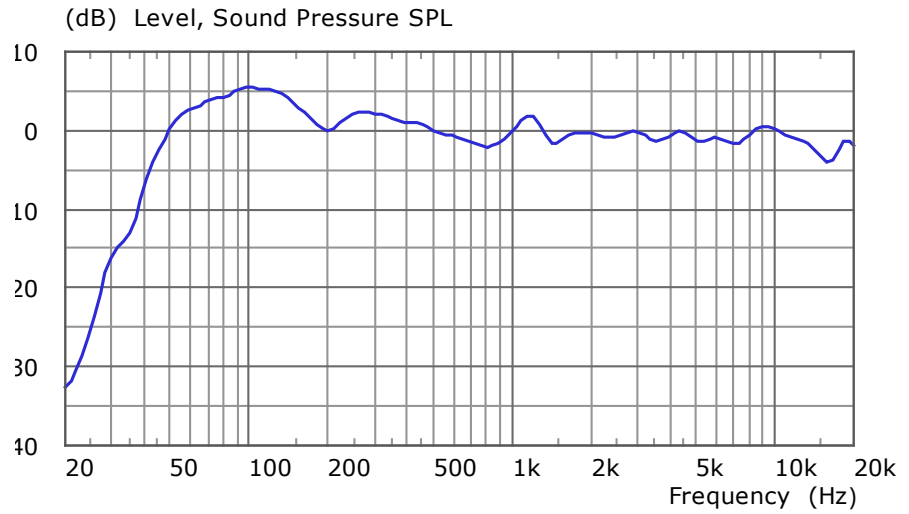
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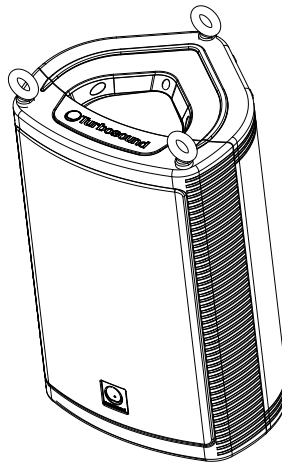
Frequency Response



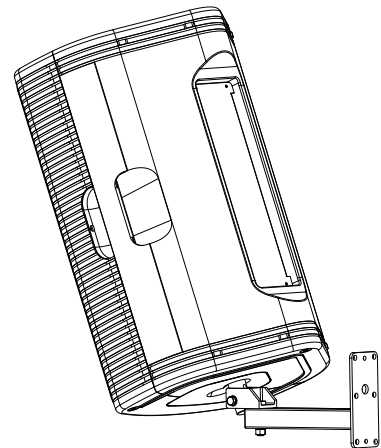
Flying & Rigging Hardware

The Milan M15 loudspeaker can be wall mounted using the PB-55 universal wall bracket with the built in pole mount socket.

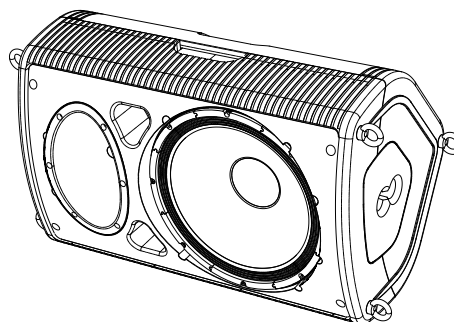
It can also be suspended in permanent installations using shoulder eyebolts attached to the M10 rigging points provided on the top and bottom of the cabinet. The loudspeaker can be oriented either vertically or horizontally to suit the available venue space.



EB-10 Eyebolts



PB-55 Wall Mount



Milan M15

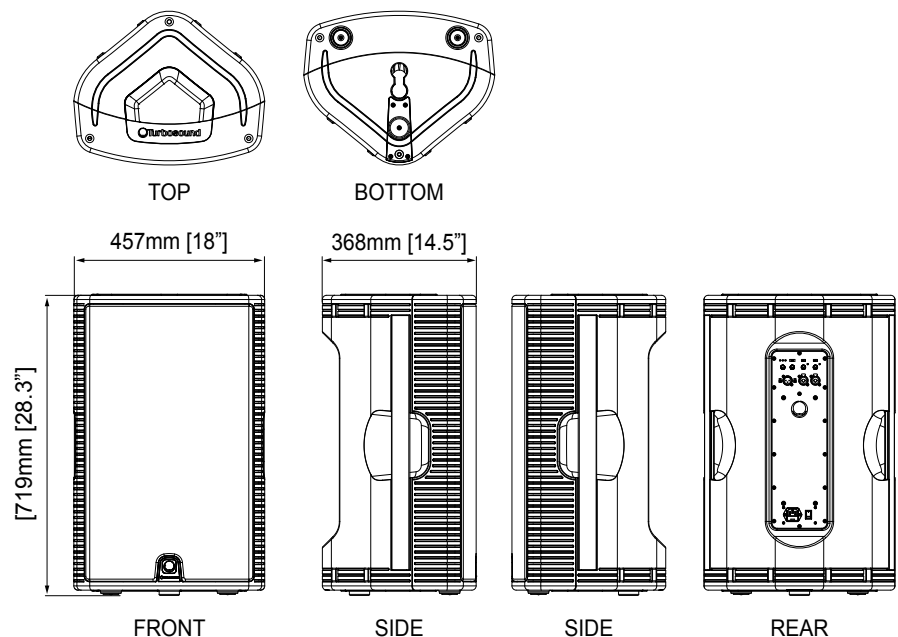
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A&E Specifications

The system shall be of the two-way self-powered type consisting of one 15" (381mm) low frequency loudspeaker and one 1" (25mm) aluminium diaphragm high frequency compression driver together with an integrated Class-D amplifier providing two independent input channels with microphone and line inputs, bass and treble equalisation, low cut filter, speech/music contour and Mix Out function. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within $\pm 3\text{dB}$ from 45Hz to 18kHz, and within -10dB from 40Hz to 20kHz. Nominal dispersion, at -6dB points, shall average $90^\circ\text{H} \times 60^\circ\text{V}$. Maximum SPL measured with music program input shall be 130dB (peak).

Dimensions: 719mm high x 457mm wide x 368mm deep (28.3" x 18" x 14.5"). Net weight: 27.7kg (60.9lbs). The loudspeaker system shall be the Turbosound Milan M15. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

Dimensions



Limited Warranty and Service Information

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

For service, support or more information contact the TURBOSOUND location nearest you.

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